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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/052,793	11/02/2001	Axel K. Kloth	2001 P 16199 US	3205	
75	90 03/03/2006		EXAM	INER	
SIEMENS CORPORATION INFINEON TECHNOLOGIES NORTH AMERICA CORP. INTELLECTUAL PROPERTY DEPT. 170 WOOD AVENUE SOUTH			BLOUNT, STEVEN		
			ART UNIT	PAPER NUMBER	
			2668	TALER NOMBER	
ISELIN, NJ 0	8830		DATE MAILED: 03/03/2006	MAILED: 03/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	J
Office Action Summer	10/052,793	KLOTH, AXEL K	
Office Action Summary	Examiner	Art Unit	
	Steven Blount	2668	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communicatio D (35 U.S.C. § 133).	•
Status			
1) Responsive to communication(s) filed on 23 De	ecember 2005.		
· · · · · · · · · · · · · · · · · · ·	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	s
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) 1 - 14 is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 - 14</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	г.		
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
 Certified copies of the priority documents 	s have been received.		
2. Certified copies of the priority documents	• •		
3. Copies of the certified copies of the prior	·	ed in this National Stage	
application from the International Bureau	, , , ,		
* See the attached detailed Office action for a list	of the certified copies not receive	d.	
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) D Notice of Informal P	atent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 4, 5, 7, 8 9, 11 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicants admitted prior art (AAPA) in view of U.S. patent 6,985,483 to Mehrota et al.

With regard to claim 1, AAPA teaches, starting on page 1 lines 10+ of the specification, using lookup tables in routers to lookup ports, said routing tables being stored in DRAM. AAPA also identifies a problem existing in the prior art wherein this routine introduces excessive unwanted latency. AAPA does not however teach a solution to this problem to comprise using both DRAM and SRAM in the lookup table.

This is taught in Mehrota. See col 14, especially lines 18+.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have solved the problem existing in the prior art comprising latency in DRAM based router memories as stated in the AAPA, in light of the teachings of Mehrota et al, in order to provide a method of routing data at speeds which make the said routers efficient and economical to use.

With regard to claim 2, note the teachings of SRAM and DRAM and the

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obviousness of searching the lowest "cost" memory first before resorting to a search of the higher "cost" memory.

With regard to claim 4, note the use of a binary tree search in figure 8.

With regard to claim 5, see the rejection above and note the necessity of consulting the SRAM portion.

With regard to claim 7, see the tree in figure 6.

With regard to claims 8 - 9 and 11 - 13, see the rejections above.

3. Claims 3, 6, 10, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicants admitted prior art (AAPA) in view of U.S. patent 6985483 to Mehotra as applied to claims 1, 2, 4, 5, 7, 8 - 9, and 11 – 13 above, and further in view of U.S. patent 6,154,746 to Berchtold et al.

AAPA/Mehotra teach the invention as discussed above, but do not teach searching using bisection search. This is taught in Berchtold et al. See col 15 lines 15+ and col 1 lines 30+.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have searched the data of AAPA/Mehrota using bisection search, in light of the teachings of Berchtold in order to provide one more method for speeding up the search of the data.

- 4. Applicants remarks are moot in view of the new grounds of rejection.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Blount whose telephone number is 703-305-0319. The examiner can normally be reached on M-F 9:00 5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Chau Nguyen, can be reached on 571 – 272 - 3071. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SB 2/22/06

ALPUS H. HSU PRIMARY EXAMINER

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